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egistered Patent Agents aren R. Markowicz ancy J. Leith latthew J. Dowd atrina Yujian Pei Quach nyan L. Skelton obert A. Schwartzman eresa A. Coltila fffrey S. Lundgren ictoria S. Rutherford Michelle K. Holoubek Simon J. Elliott Julie A. Heider Mita Mukherjee Scott M. Woodhouse Christopher J. Walsh Uliana Di Nola-Baron Peter A. Socarras Leffens Milli

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August 9, 2005

WRITER'S DIRECT NUMBER: (202) 772-8587 INTERNET ADDRESS: PGARRETT@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Amendment

Re: U.S. Utility Patent Application

Application No. 10/719,058; Filed: November 24, 2003

For: Methods, Systems, and Computer Program Products for Parallel

Correlation and Applications Thereof

Inventors: RAWLINS et al. Our Ref: 1744.1380000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Supplemental Information Disclosure Statement;
- 2. Five (5) sheets of Form PTO-1449 listing twenty-seven (27) documents;
- 3. One (1) copy each of documents AM23 and AP59-AR59; and
- 4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents August 9, 2005 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett Attorney for Applicants Registration No. 39,987

PEG/mlb Enclosures 430528_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Confirmation No.: 9124

RAWLINS et al. Art Unit: 2193

 Appl. No.: 10/719,058
 Examiner: Malzahn, David H.

 Filed: November 24, 2003
 Atty. Docket: 1744.1380000

For: Methods, Systems, and Computer Program Products for Parallel

Program Products for Parallel Correlation and Applications

Thereof

Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on December 29, 2004 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this

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information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AM23 was cited in an Office Action in related German Patent Application No. 19983659.0-35, filed October 20, 1999, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,557,641, which as already been cited in the present application.

Document AP59 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,064,054 and 6,608,647, Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," IEEE Journal of Selected Topics in Quantum Electronics, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996), Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, Control and Instrumentation, IEEE, pp. 879-883 (September 1994), and Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & Communication Engineering Journal, IEEE, pp. 37-47 (February 1998), which have already been cited in the present application.

Document AQ59 was cited in a Notice of Allowance in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus

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for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Document AR59 is an English-language Abstract of document AM23.

Document AH64 was cited in a Notice of Allowance in related U.S. Patent Application No. 10/197,441, filed July 18, 2002, entitled "Method and System for Frequency Up-Conversation With a Variety of Transmitter Configurations," directed to related subject matter.

Document AI64 was cited in an Office Action in related U.S. Patent Application No. 10/086,250, filed March 4, 2002, entitled "Applications of Universal Frequency Translation," directed to related subject matter.

Document AA65 was cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,982,315, which has already been cited in the present application.

Documents AB65, AH65, AH66, and AI66 are co-owned patents which are directed to related subject matter.

Document AC65 was cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

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Documents AD65-AG65 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/770,675, filed January 29, 2001, entitled "Wireless and Wired Cable Modern Applications of Universal Frequency Translation Technology," directed to related subject matter.

Documents AI65 and AA66-AG66 were cited in an Office Action in related U.S. Patent Application No. 09/855,851, filed May 16, 2001, entitled "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,465,415, 6,049,706, 6,061,551, 6,580,902, 6,687,493, and 6,813,485, all of which have already been cited in the present application.

Document AA67 was cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method And System For Down-Converting An Electromagnetic Signal, And Transforms For Same," directed to related subject matter. Also cited in said Office Action were U.S. Pat. Nos. 5,678,226 and 6,094,084, which have already been cited in the present application.

Document AB67 was cited in an Office Action in related U.S. Patent Application No. 09/476,092, filed January 3, 2000, entitled "Analog Zero If Fm Decoder And Embodiments Thereof, Such As The Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Pat. Nos. 5,600,680 and 5,606,731, which have already been cited in the present application.

Documents AC67-AF67 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-Converter

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Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action was Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," *Electronics & Communication Engineering Journal*, IEEE, pp. 37-47 (February 1998), which has already been cited in the present application.

Documents AG67 and AH67 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/632,855, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments," directed to related subject matter.

Document AI67 was cited in an Office Action in related U.S. Patent Application No. 09/796,824, filed March 2, 2001, entitled "Phased Array Antenna Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,742,189, which has already been cited in the present application.

Documents AA68-AC68 were cited in an Office Action in related U.S. Patent Application No. 10/318,207, filed December 13, 2002, entitled "Method And Apparatus For Reducing Re-Radiation Using Techniques Of Universal Frequency Translation Technology," directed to related subject matter.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

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Applicants have checked the appropriate boxes below: 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement. ∑ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required. 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1). b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no

item of information in this Information Disclosure Statement

Atty. Docket: 1744.1380000 was cited in a communication from a foreign patent office in a

counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2). c. Attached is our PTO-2038 Credit Card Payment Form in the amount of ____ in payment of the fee under 37 C.F.R. § 1.17(p). 14. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition: a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

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□ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.
- \[
 \bigsize \text{\text{M}} \]
 A. Concise explanation of the relevance of the non-English language document AM23 appears below in accordance with 37 C.F.R. § 1.98(a)(3):

Document AM23 (DE 69221098T2) appears to describe a radiofrequency frequency multiplier comprising an automatic level control circuit. An English-language abstract of document AM23 is enclosed as document AR59. It is also noted that document AM23 is a counterpart of European Patent Publication EP 0 548 542 A1, which has already been cited in the present application.

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- 7. Copies of documents AM23, AP59, AQ59, and AR59 are enclosed. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents and patent application publications cited on the attached Form PTO-1449 are not enclosed.
 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No.________, filed _______, which is relied upon for an earlier filing date under 35
- ☑ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no. 09/987,193, filed November 13, 2001, in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

1.98(d).

U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. §

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

RAWLINS et al. Appl. No. 10/719,058 Atty. Docket: 1744.1380000

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Patrick E. Garrett

Attorney for Applicants Registration No. 39,987

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1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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	AH64	5,982,329	11/1999	Pi	ttman et al.					
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	AP59	Deboo, Gordon J., Integrated Circuits and Semiconductor Devices, 2nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).								
	AQ59	Hellwarth, G.A. and J and Electroacoustics,	Hellwarth, G.A. and Jones, G.D. "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).							
	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.								
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	AA65	3,614,630	10/1971	Rorden			
	AB65	6,836,650 B2	12/2004	Sorrells et al.			
	AC65	5,844,868	12/1998	Takahashi et al.			
	AD65	6,385,439 B1	05/2002	Hellberg			
	AE65	6,741,139 B2	05/2004	Pleasant et al.			
	AF65	6,823,178 B2	11/2004	Pleasant et al.			
	AG65	6,850,742 B2	02/2005	Fayyaz			
	AH65	6,853,690 B1	02/2005	Sorrells et al.			
	Al65	4,789,837	12/1988	Ridgers			
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	AA66	5,634,207	05/1997	Yam	aji et al.			
	AB66	5,642,071	06/1997	Seve	enhans et al.			
	AC66	6,211,718 B1	04/2001	Sou	etinov			
	AD66	6,212,369 B1	04/2001	Avas	sarala			
	AE66	6,308,058 B1	10/2001	Sou	etinov et al.			
	AF66	6,633,194 B2	10/2003	_	oorg et al.			
	AG66	2001/0036818 A1	11/2001	_	rovolny		5"	
	AH66	6,873,836 B1	03/2005	Sorr	rells et al.			
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KAMINER IITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	30B-CLASS	
	AA67	6,057,714	05/2000	Andrys et al.			
	AB67	2003/0081781 A1	05/2003	Jensen et al.			
	AC67	5,994,689	11/1999	Charrier			
	AD67	6,512,544 B1	01/2003	Merrill et al.			
	AE67	6,628,328 B1	09/2003	Yokouchi et al.			
	AF67	6,801,253 B1	10/2004	Yonemoto et al.			
	AG67	3,737,778	06/1973	Van Gerwen et al.		1	
	AH67	4,286,283	08/1981	Clemens			
	AI67	4,241,451	12/1980	Maixner et al.			
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	AA68	5,014,130	05/1991	Heister et al.				
	AB68	5,390,215	02/1995	Anita et al.				
	AC68	5,805,460	09/1998	Greene et al.				
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